

## APPENDIX D

## RCM COST AVOIDANCE CALCULATIONS EXAMPLE

The following provides an example RCM cost avoidance for the extension of an on-condition inspection from 6,000 FH's to 8,958 FH's for the E-6A aircraft.

Variable	Number	Units	Description
AL	24000	Specify	Remaining aircraft life
MHO	20.2	Man-Hrs	O-Level manhours required to perform task
MHD	37.2	Man-Hrs	Depot level manhours required to perform task
MH\$O	25	\$	Cost of 1 O-level manhour
MH\$D	85	\$	Cost of 1 depot manhour
N	16	A/C	Number of affected aircraft
RCMMH	160	Man-Hrs	Number of manhours to perform RCM analysis
RCMMH\$	85	\$	Cost of 1 manhour for RCM analyst
TPC\$	0	\$	Cost of changing technical manuals
NAE	0	Num	Number of age exploration tasks performed
MHAEO	0	Man-Hrs	O-Level manhours required to perform task
MHAED	0	Man-Hrs	Depot level manhours required to perform task
BII	6000	Specify	Inspection interval before RCM
AII	8958	Specify	Inspection interval after RCM analysis/update
BMHO	20.2	Man-Hrs	O-level manhours before RCM
BMHD	37.2	Man-Hrs	Depot manhours before RCM

## Calculations

## Before RCM

BCI	3667	\$	Cost of performing inspection before RCM
BNI	64	Num	Number of inspections for remaining life
CB	234688	\$	Cost of performing task before RCM

## After RCM

ACI	3667	\$	Cost of performing inspection after RCM
ANI	32	Num	Number of inspections performed after RCM
CIA	117344.00	\$	Cost of performing inspections after RCM
RCM\$	13600.00	\$	Cost of performing RCM analysis/update
AE\$	0.00	\$	Cost of performing associated age exploration
CA	130944.00	\$	Cost of performing task after RCM

## COST

AVOIDANCE	103744.00	\$
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